

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No. PCT/EP 2005 / 002227

03.03.05

03 MAR 2005

International Filing Date

EUROPEAN PATENT OFFICE
PCT INTERNATIONAL APPLICATION

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference
(if desired) (12 characters maximum) 040001FCIP

Box No. I TITLE OF INVENTION

Membrane electrode unit

Box No. II APPLICANT

This person is also inventor

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

Umicore AG & Co KG
Rodenbacher Chaussee 4
D-63457 Hanau-Wolfgang

DE

Telephone No.

Facsimile No.

Teleprinter No.

Applicant's registration No. with the Office

State (that is, country) of nationality:

DE

State (that is, country) of residence:

DE

This person is applicant for the purposes of: all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

KOEHLER, Joachim
Schmiedegasse 15b
D-63584 Gruendau

DE

This person is:

applicant only

applicant and inventor

inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

DE

State (that is, country) of residence:

DE

This person is applicant for the purposes of: all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Further applicants and/or (further) inventors are indicated on a continuation sheet.

Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:

agent

common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

STARZ, Karl Anton
Umicore AG & Co KG
Patente
Postfach 1351
D-63403 Hanau-Wolfgang

DE

Telephone No.

06181-59 2718

Facsimile No.

06181-59 4661

Teleprinter No.

Agent's registration No. with the Office
EPO AV-Nr. 47260

Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not be included in the request.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

GELZ, Markus
Hanauer Landstrasse 22b
D-63457 Hanau-Grossauheim

DE

This person is:

applicant only
 applicant and inventor
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:
DE

State (that is, country) of residence:
DE

This person is applicant for the purposes of: all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

ZUBER, Ralf
Valentin-Hock-Strasse 11
D-63762 Grossostheim

DE

This person is:

applicant only
 applicant and inventor
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:
DE

State (that is, country) of residence:
DE

This person is applicant for the purposes of: all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

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This person is:

applicant only
 applicant and inventor
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of: all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

applicant only
 applicant and inventor
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of: all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Further applicants and/or (further) inventors are indicated on another continuation sheet.

Box No. V DESIGNATIONS																											
<p>The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.</p> <p>However,</p> <p><input type="checkbox"/> DE Germany is not designated for any kind of national protection</p> <p><input type="checkbox"/> KR Republic of Korea is not designated for any kind of national protection</p> <p><input type="checkbox"/> RU Russian Federation is not designated for any kind of national protection</p>																											
<p><i>(The check-boxes above may be used to exclude (irrevocably) the designations concerned in order to avoid the ceasing of the effect, under the national law, of an earlier national application from which priority is claimed. See the Notes to Box No. V as to the consequences of such national law provisions in these and certain other States.)</i></p>																											
Box No. VI PRIORITY CLAIM																											
<p>The priority of the following earlier application(s) is hereby claimed:</p> <table border="1"> <thead> <tr> <th rowspan="2">Filing date of earlier application (day/month/year)</th> <th rowspan="2">Number of earlier application</th> <th colspan="3">Where earlier application is:</th> </tr> <tr> <th>national application: country or Member of WTO</th> <th>regional application:*</th> <th>international application: receiving Office</th> </tr> </thead> <tbody> <tr> <td>item (1) 05 MRT 2004 (05.03. 2004)</td> <td>04 005 219.3</td> <td></td> <td>EP</td> <td></td> </tr> <tr> <td>item (2)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>item (3)</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:			national application: country or Member of WTO	regional application:*	international application: receiving Office	item (1) 05 MRT 2004 (05.03. 2004)	04 005 219.3		EP		item (2)					item (3)				
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item (1) 05 MRT 2004 (05.03. 2004)	04 005 219.3		EP																								
item (2)																											
item (3)																											
<p><input type="checkbox"/> Further priority claims are indicated in the Supplemental Box.</p>																											
<p>The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:</p> <p><input type="checkbox"/> all items <input checked="" type="checkbox"/> item (1) <input type="checkbox"/> item (2) <input type="checkbox"/> item (3) <input type="checkbox"/> other, see Supplemental Box</p>																											
<p><i>* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):</i></p>																											
Box No. VII INTERNATIONAL SEARCHING AUTHORITY																											
<p>Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):</p> <p>ISA / EPO</p>																											
<p>Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):</p>																											
Date (day/month/year)	Number	Country (or regional Office)																									
02.09.2004	04 005 219.3	EPO																									
Box No. VIII DECLARATIONS																											
<p>The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):</p>				Number of declarations																							
<input type="checkbox"/> Box No. VIII (i)	Declaration as to the identity of the inventor	:																									
<input checked="" type="checkbox"/> Box No. VIII (ii)	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	:		1																							
<input type="checkbox"/> Box No. VIII (iii)	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	:																									
<input type="checkbox"/> Box No. VIII (iv)	Declaration of inventorship (only for the purposes of the designation of the United States of America)	:																									
<input type="checkbox"/> Box No. VIII (v)	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	:																									

Box No. VIII (ii) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRANTED A PATENT

The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (ii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:

In relation to this international application,

Umicore AG & Co KG, KOEHLER, Joachim, GELZ, Markus and ZUBER, Ralf are entitled to apply for and be granted a patent by virtue of the following:

- (i) KOEHLER, Joachim of Schmiedegasse 15b, D-63584 Gruendau, DE, GELZ, Markus of Hanauer Landstrasse 22b, D-63457 Hanau-Grossauheim, DE, and ZUBER, Ralf of Valentin-Hock-Strasse 11, D-63762 Grossostheim, DE, are the inventors of the subject matter for which protection is sought by way of this international application
- (ii) Umicore AG & Co KG is entitled as employer of the inventors KOEHLER, Joachim, Gelz, Markus and ZUBER, Ralf.
- (iii) This declaration is made for the purpose of all designations.

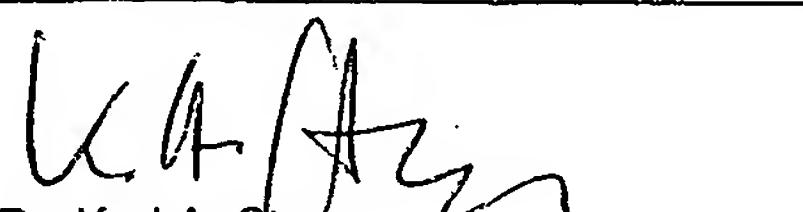
This declaration is continued on the following sheet, "Continuation of Box No. VIII (ii)".

Box No. IX CHECK LIST; LANGUAGE OF FILING

This international application contains:		This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):		Number of items
(a) in paper form, the following number of sheets: request (including declaration sheets) : 5 description (excluding sequence listing and/or tables related thereto) : 12 claims : 2 abstract : 1 drawings : Sub-total number of sheets : 20		1. <input checked="" type="checkbox"/> fee calculation sheet : 2. <input type="checkbox"/> original separate power of attorney : 3. <input type="checkbox"/> original general power of attorney : 4. <input type="checkbox"/> copy of general power of attorney; reference number, if any: 5. <input type="checkbox"/> statement explaining lack of signature : 6. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s): 7. <input type="checkbox"/> translation of international application into (language): 8. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material : 9. <input type="checkbox"/> sequence listing in computer readable form (indicate type and number of carriers) (i) <input type="checkbox"/> copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application) : (ii) <input type="checkbox"/> (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter : (iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listing mentioned in left column : 10. <input type="checkbox"/> tables in computer readable form related to sequence listing (indicate type and number of carriers) (i) <input type="checkbox"/> copy submitted for the purposes of international search under Section 802(b-quarter) only (and not as part of the international application) (ii) <input type="checkbox"/> (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quarter) : (iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column : 11. <input type="checkbox"/> other (specify): 		
(b) <input type="checkbox"/> only in computer readable form (Section 801(a)(i)) (i) <input type="checkbox"/> sequence listing (ii) <input type="checkbox"/> tables related thereto (c) <input type="checkbox"/> also in computer readable form (Section 801(a)(ii)) (i) <input type="checkbox"/> sequence listing (ii) <input type="checkbox"/> tables related thereto Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the <input type="checkbox"/> sequence listing: <input type="checkbox"/> tables related thereto: (additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)				
Figure of the drawings which should accompany the abstract:	Language of filing of the international application:			English

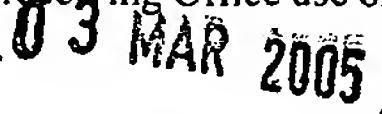
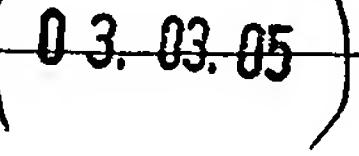
Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).



11/3/05

Dr. Karl A. Starz
 Director IP Management
 Umicore AG & Co KG

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1. Date of actual receipt of the purported international application: 3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application: 4. Date of timely receipt of the required corrections under PCT Article 11(2): 5. International Searching Authority (if two or more are competent): ISA / 6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid		2. Drawings: <input type="checkbox"/> received: <input type="checkbox"/> not received:
 		

For International Bureau use only

Date of receipt of the record copy by the International Bureau:

This sheet is not part of and does not count as a sheet of the international application.

PCT

FEE CALCULATION SHEET

Annex to the Request

For receiving Office use only

International Application No.

Applicant's or agent's
file reference

040001FCIP

Date stamp of the receiving Office

Applicant

Umicore AG & Co KG

CALCULATION OF PRESCRIBED FEES

1. TRANSMITTAL FEE 100.00 T

2. SEARCH FEE 1,550.00 S

International search to be carried out by EPO

(If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.)

3. INTERNATIONAL FILING FEE

Where items (b) and/or (c) of Box No. IX apply, enter Sub-total number of sheets
Where items (b) and (c) of Box No. IX do not apply, enter Total number of sheets } _____

i1 first 30 sheets i1

i2 _____ x _____ = i2
number of sheets in excess of 30 fee per sheet

i3 additional component (only if sequence listing and/or tables related thereto are filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii)):

400 x _____ = i3
fee per sheet

Add amounts entered at i1, i2 and i3 and enter total at I 902.00 I

(Applicants from certain States are entitled to a reduction of 75% of the international filing fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the international filing fee.)

4. FEE FOR PRIORITY DOCUMENT (if applicable) 30.00 P

5. TOTAL FEES PAYABLE 2,582.00

Add amounts entered at T, S, I and P, and enter total in the TOTAL box

TOTAL

MODE OF PAYMENT

authorization to charge deposit account (see below)

postal money order

cash

coupons

cheque

bank draft

revenue stamps

other (specify): _____

AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT

(This mode of payment may not be available at all receiving Offices)

Authorization to charge the total fees indicated above.

(This check-box may be marked only if the conditions for deposit accounts of the receiving Office so permit) Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.

Authorization to charge the fee for priority document.

Receiving Office: RO/ EPO

Deposit Account No.: 28 000 752

Date: March 1, 2005

Name: Dr. Karl A. Starz

Signature: Karl A. Starz

See Notes to the fee calculation sheet